

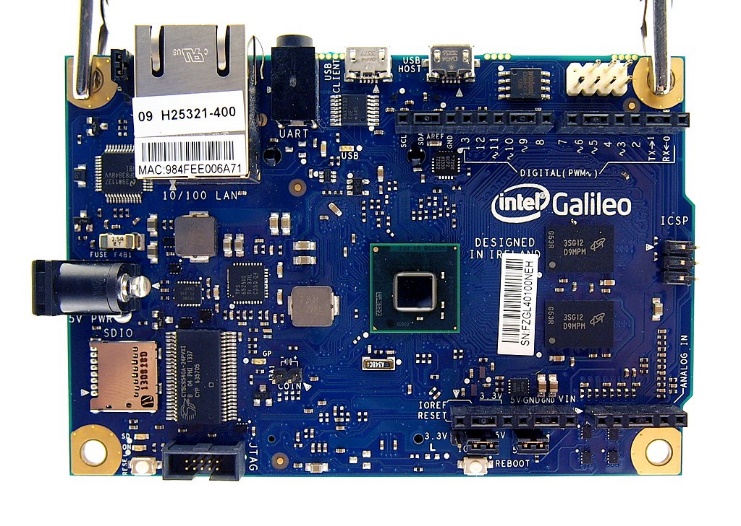
Internet of Things – Smart Home

Using ethernet

Phạm Minh Quang - Vũ Minh Tú Anh | Computer Networks | 2019

# DEVICES & OPERATIONS

1. Devices

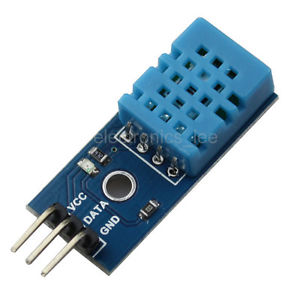
* Intel Galileo Gen 1
* Gas Sensor



* Soil Moisture Sensor

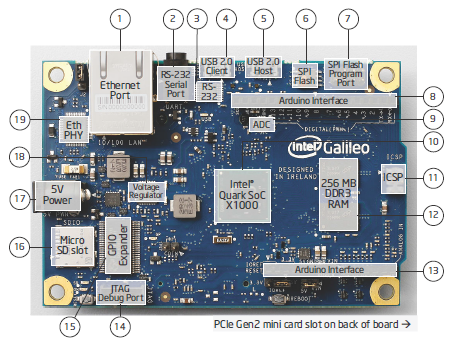


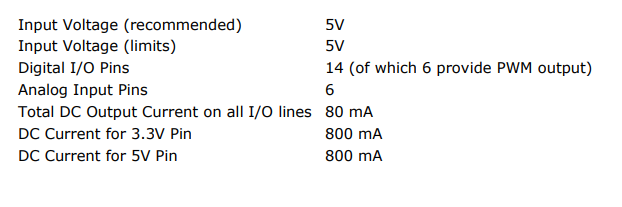
* Air Humidity and Temperature Sensor

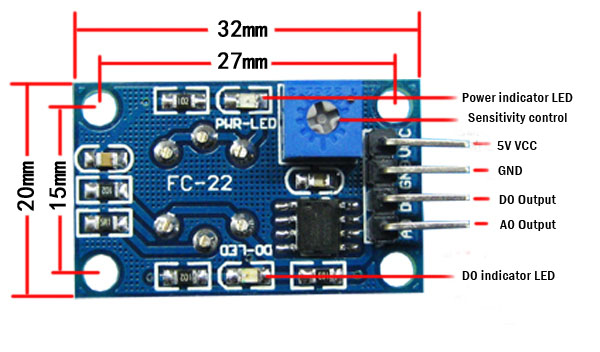


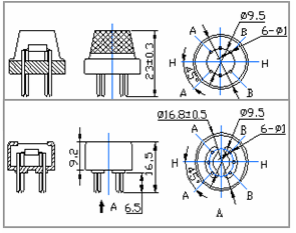
* Mini Speaker 3W
* Other devices: Breadboard, USB Cable, Wires, Resistors, Capacity, and LEDs

1. Operations

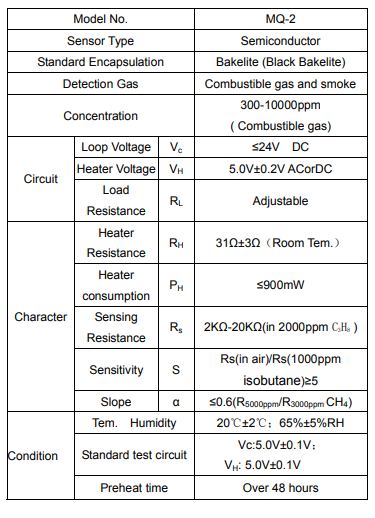
* **Intel Galileo**
* Electrical Summary:

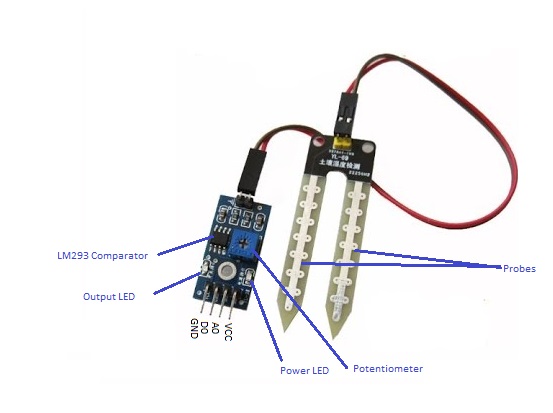


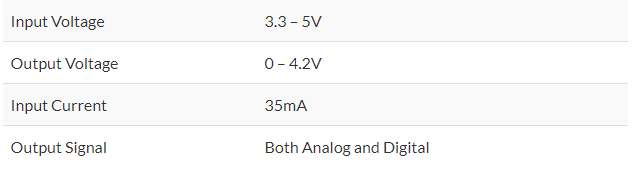
* For further information: <https://www.intel.com/content/dam/support/us/en/documents/galileo/sb/galileo_datasheet_329681_003.pdf>
* **MQ2 Gas Sensor**:
*  Configuration:

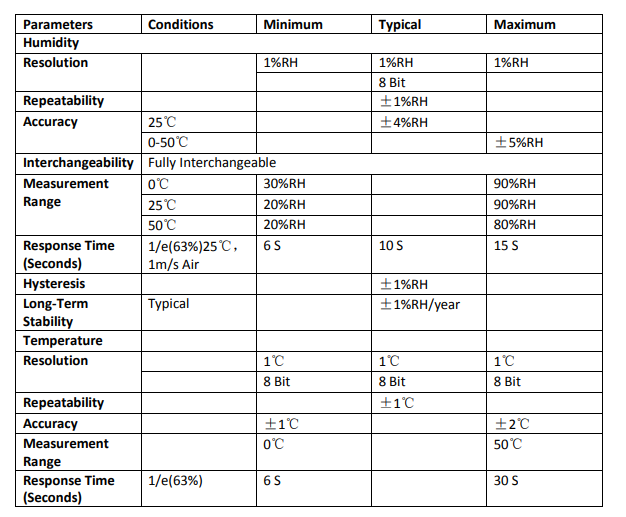


* Technical Data



* For futher information: <https://www.pololu.com/file/0J309/MQ2.pdf>
* **Soil Moisture Sensor (built around the LM393 comparator)**
* Specifications:



* For further information: [http://www.circuitstoday.com/arduino-soil-moisture-sensor](%20http:/www.circuitstoday.com/arduino-soil-moisture-sensor)
* **Temperature and Humidity Sensor DHT-11**
* Specifications:
* For further information: <https://www.mouser.com/ds/2/758/DHT11-Technical-Data-Sheet-Translated-Version-1143054.pdf>

## Schematic

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